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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/508,570	05/23/2000	Francois Arminjon	MBHIB00-210	9141	
7	2590 03/04/2002			•	
McDonnell Boehnen Hulbert & Berghoff 300 South Wacker Drive Chicago, IL 60606			EXAM	. EXAMINER	
			BROWN, STACY S		
			ART UNIT	PAPER NUMBER	
			1648	9	
		DATE MAILED: 03/04/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

						
Office Action Summary		Application No.	Applicant(s)			
		09/508,570	ARMINJON ET AL.			
		Examiner	Art Unit			
		Stacy S Brown	1648			
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)🛛	Responsive to communication(s) filed on 17 D	<u> Pecember 2001</u> .				
2a)⊠	This action is FINAL . 2b) Thi	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>21-38</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>21-38</u> is/are rejected.						
7)	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) 🔲 🗇	The proposed drawing correction filed on					
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)[2	☑ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachment(s)						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>8</u> .	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

1. Applicant's amendment dated December 17, 2001 is acknowledged and entered. Claims 21-38 are pending.

2. The objection to claim 34 is withdrawn in view of Applicant's amendment. The rejection of claims 34-38 under 35 U.S.C. 112, second paragraph is withdrawn in view of Applicant's amendment. The rejection of claims 21-38 under 35 U.S.C. 103(a) as being unpatentable over Gold *et al.* (*Ped. Infect. Dis. J.*, 1994, 13:348-355) in view of *Petre et al.* (WO 93/24148) is withdrawn in view of Applicant's amendment. In view of the amendments to the claims which add further limitations, the following new rejections are applied.

Claim Rejections - 35 USC § 102/103

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 21-38 are rejected under 35 U.S.C. 102(a) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Arminjon *et al.* (AU 708777 or WO 96/37222).

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The claims are drawn to multi-component vaccine and method of preparing said vaccine comprising pertussis toxoid and filamentous hemagglutinin in purified form, tetanus toxoid, diphtheria toxoid, inactivated polio virus, a conjugate of a carrier molecule selected from tetanus toxoid and diphtheria toxoid and a capsular polysaccharide of H. influenzae type B (HiB) and an aluminum salt. The tetanus and diphtheria toxoids are adsorbed onto the aluminum salt before being mixed with the other components and the conjugate is prepared in a phosphate buffer solution being mixed with the other components. The aluminum salt can be aluminum hydroxide or aluminum phosphate. The vaccine can be administered to humans, including infants, and can be administered in a dual syringe. Specific amounts of vaccine components are claimed to achieve the desired immunogenicity of each component.

Arminjon et al. disclose the identical vaccine and method instantly claimed. The vaccine for young children comprises pertussis toxoid and filamentous hemagglutinin in purified form, tetanus toxoid, diphtheria toxoid, inactivated polio virus, a conjugate of a carrier molecule selected from tetanus toxoid and diphtheria toxoid and a capsular polysaccharide of H. influenzae type B (HiB) and an aluminum salt, see example 1 of AU 708777. The tetanus and diphtheria toxoids are adsorbed onto the aluminum salt before being mixed with the other components and the conjugate is prepared in a phosphate buffer solution being mixed with the other components, see pages 2-4. The aluminum salt can be aluminum hydroxide or aluminum phosphate. The vaccine can be administered to humans, including infants, and can be administered in a dual syringe, see page 2, lines 13-26. Specific amounts of vaccine components are claimed to achieve the desired immunogenicity of each component, see examples 12-14. Therefore the instant claims are anticipated, or in the alternative, obvious over Arminjon.

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Although Arminjon does not specifically disclose that the phosphate buffer solution of the conjugate carrier molecule is the final element to the added to the vaccine mixing process, the fact that a dual syringe/compartment is suggested for storage, indicates that the phosphate buffer solution is added to the mixture last, see page 2, lines 13-26.

Conclusion

No claim is allowed. 4.

Applicant's submission of an information disclosure statement under 37 CFR 1.97(c) with the fee set forth in 37 CFR 1.17(p) on December 17, 2001, Arminjon et al. (AU 708777 and WO 96/37222), prompted the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 609(B)(2)(i). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Papers relating to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Group 1600 located in Crystal Mall 1. The Fax number

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for Art Unit 1648 is (703) 308-4426. All Group 1600 Fax machines will be available to receive transmissions 24 hrs/day, 7 days/wk. Please note that the faxing of such papers must conform with the Notice published in the Official Gazette, 1096 OG 30, (November 15, 1989).

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Stacy S. Brown, whose telephone number is (703) 308-2361. The Examiner can normally be reached on Monday through Friday and alternate Wednesdays from 6:30 AM-4:00 PM, (EST). If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, James C. Housel, can be reached at (703) 308-4027. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Stacy S. Brown March 1, 2002 HANKYEL T. PARK, PH.D PRIMARY EXAMINER